

Alignment of Nulake Year 12 Mathematics Workbook to Qatar Grade 11A Standards

Overall features:

- Differentiated questions at 3 levels – Achievement/Merit/Excellence supports differentiated teaching.
- There are good notes and examples on use of graphic calculators –useful for teachers who have not had pd
- Advice on customizing the workbook for individual learning styles is included.
- Hints on how to study and how to use the book are included for teachers.
- The book is cheap – should be QR60 or thereabouts so it is feasible that every student have one as their basic workbook.
- The language is appropriate.
- The authors are open to writing specific sections to meet local conditions if numbers are guaranteed – e.g. a section on vectors could be included if requested.
- Highlighted notes and worked examples are well set out.
- Whereas many schools seem to send textbooks home for the students to use for homework (and they remain there unused for the year) and at the same time many students do not bring their workbooks to class, this combines the 2 books in one.

Alignment to Grade 11A Course

Nulake Chapter	11A Unit	Standards covered (from the unit)	Standards omitted	Notes
1.0 Algebra	11A-03 11A-06 Aspects of 11A-14	11A 1.3, 1.5, 5.2, 5.3, 5.4, 5.5, 5.8 3.1	11A 5.6 – linear inequalities are solved in Year 13 Statistics and Modeling Workbook Chapter 4.0	
2.0 Graphs	Aspects of 11A-03 Aspects 11A-06 Aspects of 11A-14	11A 5.2, 5.3, 5.4, 5.5, 5.8 5.7, 5.8, 5.18, 5.17 (not generalized as operation son functions)		
3.0 Calculus	11A-11	11A 6.2, 6.3 (informally only) 7.1, 7.3, 7.4,	11A 6.1, 6.3, 6.4, 7.2 are covered in Nulake Year 13 Calculus Workbook	

			Chapter 1.0	
4.0 Coordinate Geometry	Aspects of 11A-03 Aspects of 11A-06	11A 5.8, 5.9, 8.5		
5.0 Statistics		11A 8.1, 8.2, 1.11, 8.4, 8.5 11A 8.3, 8.6, 9.1, 1.7, 1.12, 1.14		This was also covered extensively in Nulake Year 11 Chapter 5
6.0 Probability	Aspects of 11A-05, but this is better covered by Year 11 Nulake Chapter 6.0 and Year 13 Statistics and Modeling Workbook Chapter 3.0			
7.0 Sequences	11A-01	11A 1.13, 1.14, 4.1, 4.2, 4.3, 4.4, 4.5	11A 4.7 Factorials is covered in Nulake Year 13 Statistics and Modeling Workbook, but not Binomial Expansions	
8.0 Practical Trigonometry	11A-04	11A 8.2, 8.3, 8.4		Aspects of 11 8.3 were covered in Nulake Year 11 Chapter 8
9.0 Trigonometric Equations	Aspects of 11A-09 Aspects of 11A-14	11A 8.6, 8.8 11A 5.17 (trig graphs only)	11A 8.7	11A 6.1 is in Nulake Year 13 Calculus Workbook Chapter 1.0
			11A-02	This was covered in part in Nulake Year 11 Chapter 9
			11A-05	Much of 11A-05 was covered in Nulake Year 11 Workbook Chapter 6.0 the rest is well-covered and in Year 13 Statistics And Modeling Workbook

				Chapter 3.0
			11A-07	Much was covered in Nulake Year 11 Workbook Chapter 3.0
			11A-08	
			11A-10 is covered in Nulake Year 13 Statistics and Modeling Workbook Chapter 1.0	
			11A-12	
			11A-13 is covered in Nulake Year 11 Workbook Chapter 4.0	